

population in roadside ditch, along edge and extending into flax field. Low population variability, effective population size - about 500 plants. Plants not too branched and with smaller heads. Past peak flowering, good seed set. No apparent insect or disease damage. One plant with chrysanthemum type head, specimen collected.

PI 592319. *Helianthus annuus* L.

Wild. Ames 22182; ANN-2312. Collected 09/10/1994 in Saskatchewan, Canada . Latitude 50 deg. 10' 5'' N. Longitude 105 deg. 7' 2'' W. Elevation 575 m. 11.0 km east of Clay Bank, Hwy. 334 E. Brown, clay, silt soil, level area of disturbed roadside ditch, topography - plain (level), moderate soil nutrient content, no salinity, moderate to well drained, tillage not affected by stoniness. Cropland vegetation. Population extending for several hundred meters in roadside ditch, along edge of row-space planted cultivated sunflower field. Uniform population, effective population size - several hundred plants. More typical *H. annuus* population density, many plants had been cut. Most plants past peak flowering, good seed set. No apparent insect or disease damage. Sunflower Beetle damage in cultivated sunflower field.

PI 592320. *Helianthus annuus* L.

Wild. ANN-2313; Ames 22183. Collected 09/10/1994 in Saskatchewan, Canada . Latitude 50 deg. 2' 51'' N. Longitude 104 deg. 42' 26'' W. Elevation 535 m. 27.4 km east of Avonlea, Hwy. 334 E. Clay, silt soil, level area of roadside ditch, topography - plain (level), moderate soil nutrient content, low salinity, moderate to well drained, tillage not affected by stoniness. Cropland and grassland vegetation. Large population extending for several hundred meters in disturbed roadside ditch and along edge of wheat field. Uniform population, effective population size - several thousand plants. Regrowth of cut plants along edge of road, more typical *H. annuus* plants on lower slope. More typical *H. annuus* population, dense along edge of field. Well past peak flowering, good seed set.

PI 592321. *Helianthus annuus* L.

Wild. ANN-2315; Ames 22184. Collected 09/11/1994 in Saskatchewan, Canada . Latitude 49 deg. 24' 23'' N. Longitude 104 deg. 17' 28'' W. Elevation 679 m. 6.0 km south of Radville, intersection of Hwy. 28 S and 705 E. Brown, loam to clay, silt soil, level area of roadside ditch, topography - plain (level), moderate soil nutrient content, low salinity, moderate to well drained, tillage not affected by stoniness. Cropland and grassland vegetation. Large, scattered population along edge of road and in roadside ditch. Population variability - uniform, effective population size - several hundred plants. Some heads had leafy bracts characteristic of *H. petiolaris* ssp. *fallax*. Peak flowering, good seed set. No insect damage, moderate rust damage. Cultivated sunflower field about one km away. Associated wild species: *Lactuca*, *Aster*, *Cirsium*.

PI 592322. *Helianthus annuus* L.

Wild. ANN-2316; Ames 22185. Collected 09/11/1994 in Saskatchewan, Canada . Latitude 49 deg. 8' 45'' N. Longitude 104 deg. 12' 39'' W. Elevation 719 m. 0.5 km west of Lake Alma, Hwy. 18 W. Brown, sandy-loam soil, level area of roadside ditch, topography - plain (level), moderate soil nutrient content, low salinity, moderate to well drained, tillage affected by stoniness. Cropland and grassland vegetation. Small, scattered population along edge of road (both sides of road) and in rocky roadside ditch. Uniform population, effective population size - 100 plants. Many plants with smaller heads due to being grown along edge of road. Not typical branched *H. annuus*. Most plants past peak flowering, good seed set.

PI 592323. *Helianthus annuus* L.

Wild. ANN-2317; Ames 22186. Collected 09/11/1994 in Saskatchewan, Canada . Latitude 49 deg. 13' 54'' N. Longitude 103 deg. 15' 43'' W. Elevation